Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1	1-41. (Canceled)		
1	42. (Currently amended) A method for determining whether a test <u>colon</u> cell		
2	from a given tissue has an inflammatory bowel disease (IBD) or pre-IBD ulcerative colitis		
3	(UC) or Crohn's disease (CD) phenotype, said method comprising:		
4	(a) determining an expression level of a macrophage inflammatory protein-2β (GRO3)		
5	gene product[[,]] in said test colon cell;		
6	(b) determining an expression level of a neutrophil lipocalin (HNL) gene product[[,]] in		
7	said test colon cell;		
8	(c) determining an expression level of a macrophage elastase (MMP-12) gene product[[,		
9	in said test colon cell;		
10	(d) determining an expression level of an elastase specific inhibitor (elafin) gene		
11	product[[, and]] in said test colon cell;		
12	(e) determining an expression level of a type VI collagen α3 chain (COL6A3) gene		
13	product in said test colon cell;		
14	[[(b)]] (f) comparing the expression level of each of said gene products in said test colon		
15	cell to an expression level of the same gene product in a control normal colon cell of the given		
16	tissue type; [[and]]		
17	[[(c)]] (g) associating a difference an increase in the expression level of at least one of		
18	said gene products said GRO3 gene product, said HNL gene product, said MMP-12 gene		
19	product, said elafin gene product, or said COL6A3 gene product in said test colon cell [[from]]		
20	<u>relative to</u> the expression level of the same gene product in said <u>eontrol</u> <u>normal colon</u> cell with		
21	an IBD or pre-IBD a UC phenotype in said test colon cell; and		

Appl. No. 09/694,758 Amdt. dated November 27, 2007 Reply to Office Action of June 20, 2007

22	(h) associating an increase in the expression level of said MMP-12 gene product or said		
23	elafin gene product in said test colon cell relative to the expression level of the same gene		
24	product in said normal colon cell with a CD phenotype in said test colon cell.		
1	43.	(Canceled)	
1	44.	(Canceled)	
1	45.	(Currently amended) The method of claim 42, comprising distinguishing	
2	between a UC [[and]]] or CD phenotype in said test colon cell.	
1	46.	(Currently amended) The method of claim 42, wherein the expression	
2	level of at least one of said gene products differs from said GRO3 gene product in said test		
3	colon cell is increased relative to the expression level of the same gene product in said eontrol		
4	normal colon cell by	at least a factor of two.	
1	47.	(Currently amended) The method of claim 42, wherein said test <u>colon</u> cell	
2	is obtained from a needle biopsy core, a surgical resection sample, or a bowel sample, lymph		
3	node tissue, or serum .		
1	48.	(Previously presented) The method of claim 42, wherein the expression	
2	level of said gene products is determined using Northern blot analysis, reverse transcription-		
3	polymerase chain reaction, in situ hybridization, or an array.		
1	49.	(Previously presented) The method of claim 48, wherein said array	
2	comprises:		
3	(a) nucleic acid probes of 12-40 nucleotides in length, wherein said nucleic acid probes		
4	are complementary to said gene products and hybridize under high stringency conditions to said		
5	gene products; and		

(b) a substrate to which said nucleic acid probes are bound.

6

- 1 50. (Previously presented) The method of claim 49, wherein said substrate is selected from the group consisting of paper, membranes, filters, chips, pins, and glass.
- 1 51. (Previously presented) The method of claim 49, wherein said nucleic acid 2 probes are bound to said substrate by covalent bonds or hydrophobic interactions.
- 1 52. (Previously presented) The method of claim 49, wherein said nucleic acid 2 probes are spotted onto said substrate in a two-dimensional matrix or array.
- 1 53. (New) The method of claim 42, wherein the expression level of said HNL gene product in said test colon cell is increased relative to the expression level of the same gene product in said normal colon cell by at least a factor of two.
- 1 54. (New) The method of claim 42, wherein the expression level of said 2 MMP-12 gene product in said test colon cell is increased relative to the expression level of the 3 same gene product in said normal colon cell by at least a factor of two.
- 1 55. (New) The method of claim 42, wherein the expression level of said 2 elafin gene product in said test colon cell is increased relative to the expression level of the same 3 gene product in said normal colon cell by at least a factor of two.
- 1 56. (New) The method of claim 42, wherein the expression level of said 2 COL6A3 gene product in said test colon cell is increased relative to the expression level of the 3 same gene product in said normal colon cell by at least a factor of two.